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TYPE

REV: 02/19/2025

## Cleanroom KL-FGPA Troffers: KL-FGPA-LED-TW

2x4 High Efficiency LED Luminaires with Plenum Access

#### Rated IP66

- Suitable for ISO 3-9 Cleanspaces
- Suitable for 209E Class 1-100,000 Cleanspaces
- ETL listed for Wet Locations
- One piece overlapping doorframe
- Robotically seam welded housing
- 0-10v 1% Dimming Standard.
- Access to plenum space using sealed access panel in housing.
- One Housing Suitable for Flange and Grid Installation.
- B.A.A. & B.A.B.A Compliant & Made in the USA by a Family Owned US Corporation
- Available as Warm Dim or as Separately controlled intensity and CCT
- Tunable white LEDs allow a full range of CCTS from 2700K 6500K CCT.



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### **ORDERING GUIDE**

Series	Material	Size	Row Qty.	LED Type	CCT/CRI	Control	Voltage	Optics	Options	
KL-FGPA		2x4		LEDTW						
Series Material		Size	Light Source		Control Vol	Voltage	Optics	Options		
Series	Material	Size	Row Qty.	LED Type	CCT/CRI	Control	voitage	Optics	Options	
KL-FGPA	White AL Hsg. &		2	LEDTW	80 CRI:	10VA 0-10V Analog	120V	P12ACR 0.135" P12 Prismatic Impact Resistant Acrylic (Inverted)	SW Wet Location Hub Supplied (not installed)	
KL-FGPA	Polished 304 SS Door	2x4 2' x 4' Housing	3		827/865 2700K-6500K	Control	277V	LEX 0.125" P12 Prismatic Polycarbonate (Inverted)	PxL * Programmed to User Specified Lumen Value.	
	5 White AL Hsg. & White		4	4 90+ CRI: 1	10VWD 0-10V Warm Dim Control	UNV	A19 0.156" A19 Prismatic Impact Resistant Acrylic (Inverted)	PxW * Programmed to User Specified Wattage Value.		
	AL Door				90+ CRI:	Dim Control		TG 0.156" Prismatic Tempered Glass (Inverted)	10KV 10KV Parallel Surge Protection (One Supplied Per Circuit)	
	7 White AL Hsg. & White				927/965 2700K-6500K			HIA 0.140" P12 Prismatic High Impact Resistant Acrylic (Inverted)	GTD Generator Transfer Device	
	CRS Door							FROST 0.125" Flat Diffusing Frost Acrylic	WHIP Must Specify Length and Wire Qty	
								2DBW 0.125" Flat Diffused Acrylic with Bi-Directional Batwing Distribution	OCCMW Internal Microwave OCC Sensor	
								LBW 0.125" Flat Diffused Acrylic with Linear Batwing Distribution	FC Fuse & Holder (One Supplied Per Circuit)	
								GH85 0.125" Flat Diffused Acrylic with Glare Suppression Distribution	EM10 10W Integral LED EM (Specify Input Voltage)	
									EM20 20W Remote LED EM (Specify Input Voltage)	
								NOTE: P12ACR option is standard and will be provided when no other option is selected	GG 1/8" Thick Grid Gasket (Provided Loose)	
								NOTE: PTZHUN Option is statidard and will be provided when no other option is selected	EDL -40F Electronic Driver	
									WHT White Finished Door & HSG	
									AMW Anti-Microbrial White Powdercoat	
									2/ED Two Drivers/Two Circuits	
									Note*: Specify Value in Ordering Notes	

Ordering Notes, If Applicable



## Cleanroom KL-FGPA Troffers: KL-FGPA-LED-TW

2x4 High Efficiency LED Luminaires with Plenum Access

### **SPECIFICATIONS**

HOUSING: Welded .050" thick aluminum construction. Hole free housing with flattened knockouts and a large plenum access plate hinged to housing by (2) aircraft cables allowing simple access to the area above the ceiling.

**DOOR FRAME:** One piece door frame with welded corners overlaps the fixture allowing the NSF approved microcellular gasket to seal to the mounting surface. Door frame is hinged by aircraft cables and is supplied with captive stainless steel flush head screws to allow easy wiping of the surface. Available in .050" 3003 Powder coated Alum., 20Ga 304 Polished SS, or 18Ga Powder coated CRS.

**GASKETS:** NSF Listed closed cell microcellular extruded KleanLock SealPro gasket with vulcanized corners making a one-piece oil and solvent resistant gasket system. GG option provides a loose 1/8" thick adhesive backed gasket intended to adhere to the top face of a suspended grid ceiling for grid profiles that do not already have gasket on them.

**OPTICS:** Standard P12 prismatic acrylic lens is provided when no other options are selected. All prismatic lensing options come with an inverted lens so the smooth side faces the room for easy cleaning. All optics are sealed to the door with NSF listed RTV silicone sealant. Other optics are available, consult factory for more information or options not listed.

LEDS: Commercially available minimum 80 or 90 CRI 2 channel LED modules use 2700K and 6500K chips to mix color in order to achieve a desired color temperature. Modules have rated lifetime of L70 > 50,000 hrs and efficacy of 165Lm/W. LEDs are controllable via 0-10v dimming, see next page for control options. Consult factory for lumen output configurations not listed on spec sheets.

**DRIVERS:** Standard Universal Voltage Class 2 drivers are 0-10v Dimmable to 1%, and rated -20C (-4F). They come with at least 2.5Kv surge protection, have less than 10% THD at max load, Ballast Factor Greater than .95 and are programmable to match specific lumen or wattage requirements. Drivers with higher input voltage ratings are available, consult factory for driver specifications.

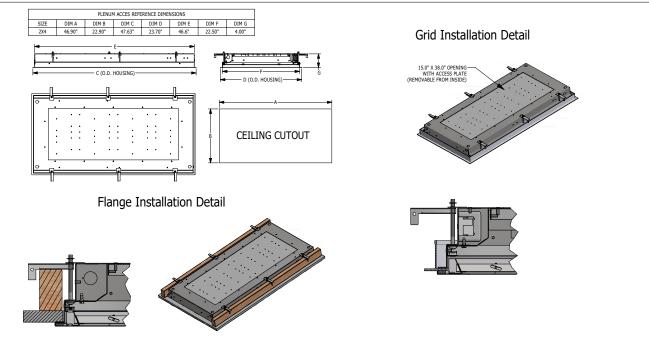
REFLECTOR: Die formed metal with high reflectance white polyester powder coat finish. Typical reflectivity 92%.

**INSTALLATION:** Suitable for recessed Non-IC installation into covered ceilings. Fixtures are supplied with .875" flattened knockouts for supply entry. Recessed housings have (6) swing out toggle arms that are used to draw the fixture in to the ceiling for hard lid installation without the need for a yoke hanger. The toggle arm adjuster bolts are accessible from the room side of the luminaire and the actual toggles can be used as means of establishing a seismic support for lay in ceiling installations. Confirm ceiling compatibility with dimension drawings below.

FINISH: Stainless steel door frames are satin polished unless WHT or AMW options are selected. All other materials are provided with gloss high reflectance white polyester powdercoat with 1000hr salt spray test per ASTM B117. AMW option provides a white anti-microbial polyester powder coat to all exposed surfaces.

LISTINGS: IP66 rated for dust and water ingress. Suitable for 1700 PSI high pressure hosedowns. ETL listed per UL\_1598 for wet locations. Chicago Plenum Rated. Certified ISO-14644-1 for class 3 through class 9 cleanspaces. Certified Fed Std 209E for Class 1 through Class 100,000 cleanspaces. NSF2 Listed for non-food zones & Splash Zones. Drivers and LEDs are covered by a 5 year warranty, the remaining fixture is covered by a 10 year warranty. This product Series is both Build America Buy America (B.A.B.A.) & Buy American Act (B.A.A.) compliant.

#### **PRODUCT DRAWINGS**



A 1420 S. Talman Ave., Chicago, IL 60608



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2x4 High Efficiency LED Luminaires with Plenum Access

### **ENERGY DATA**

PA OVERLAP-FG-LED TROFFER (APPROX <sup>1</sup> LUMENS DELIVERED)											
ENCLOSURE	NCLOSURE LIGHT PACKAGE 80 CRI (3000K - 5000K)					CCT RANGE					
SIZE		LUMENS	WATTS <sup>2</sup>	EFFICACY <sup>3</sup>	TEMP						
2X4	2LEDTW	7,800	68	115	40°C (104°F)	2700k - 6500k					
2X4	3LEDTW	11,700	103	114	40°C (104°F)	2700k - 6500k					
2X4	4LEDTW	15,600	135	116	40°C (104°F)	2700k - 6500k					
2X4	EM10	1140-1160*	4	NA	40°C (104°F)	NA					

1 DELIVERED LUMEN DATA IS CALCULATED BASED ON STATIC WHITE PHOTOMETRY @ 4000K CCT

2 WATTAGE IS MEASURED WITH 4000K SELECTION @ 120vAC AND Tambient = 25C. WATTAGES MAY VARY WITH ALTERNATE CONFIGURATIONS 3 EFFICACY CALCULATED USING 4000K CCT DATA.

4 MAX AMBIENT TEMP RATING, NON-IC INSTALLATON. TEMP RATING MAY VARY WITH SPECIFIED DRIVERS OR ANY NON STANDARD SELECTION

5 90 MINUTE 10W EMERGENCY DRIVER: LUMENS CALCULATED BASED ON FIXTURE EFFICACY.

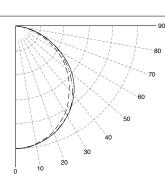
6 EM10 DELIVERED LUMENS = (DELIVERED LUMENS/LUMINAIRE WATTS)\*10

### PHOTOMETRICS

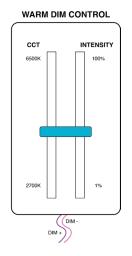
### **P12 PRISMATIC**

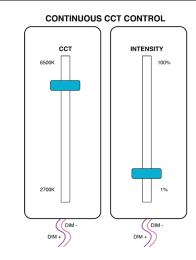






### **CONTROL OPTIONS**





Only one set of dimming Leads are required. As Intensity is Increased so is the CCT. As intensity decreases the CCT decreases to warmer color Temperatures. Two set of dimming leads are required. Intensity and CCT of light are controlled independently from one another